Amendments to the Claims:

Please cancel claims 1 to 11 as presented in the underlying International Application No. PCT/DE2005/000436 without prejudice.

Please add new claims as indicated in the listing of claims below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 to 11 (cancelled).

Claim 12 (new): A rotary friction welding machine for joining a first component to a second component comprising: a first spindle and a second spindle, the first spindle and the second spindle forming the two subsystems to be aligned with one another, the first spindle supporting the first component and the second spindle supporting the second component and an adjusting device being assigned to align the first spindle and/or to align the second spindle, the adjusting device including two interleaved frames and two groups each group having at least three actuators and being positioned between the two frames at an axial distance from one another.

Claim 13 (new): The rotary friction welding machine as recited in claim 12,
wherein the two interleaved frames are designed as concentric tubes having a ring-shaped cross section, the two groups, each having the at least three actuators, being positioned between the two tubes at an axial distance from one another.

Claim 14 (new): The rotary friction welding machine as recited in Claim 12,
wherein the two interleaved frames are designed as tubes having a rectangular cross section, two groups, each having at least four actuators, being positioned between the two tubes at an axial distance from one another.

Claim 15 (new): The rotary friction welding machine as recited in claim 12, wherein the actuators are fixedly connected to at least one of the interleaved frames.

Claim 16 (new): The rotary friction welding machine as recited in claim 15, wherein the actuators are fixedly connected to one of the interleaved frames and are movable with respect to the other frame.

Claim 17 (new): The rotary friction welding machine as recited in claim 12, wherein the actuators are designed as piezoelectric actuators.

Claim 18 (new): The rotary friction welding machine as recited in claim 12, wherein a relative position of the first spindle and the second spindle or of the first and second components to be joined together is measured continuously and that the first and second spindles and thus the two components to be joined together are dynamically aligned during operation of the rotary friction welding machine via the adjusting device as a function of the measurement.